

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	438	"318".clas. and capstan	US-PGPUB; USPAT	OR	ON	2007/06/07 12:08
L2	4	"318".clas. and capstan and cable with rod	US-PGPUB; USPAT	OR	ON	2007/06/07 12:09
L3	8	"318".clas. and capstan and cable with (extendable or extends)	US-PGPUB; USPAT	OR	ON	2007/06/07 12:11
S1	3	(haptic near mouse).ti.	US-PGPUB; USPAT	OR	OFF	2007/05/31 07:23
S2	212	((Force-feedback) or (force near feedback)).ab. and mouse	US-PGPUB; USPAT	OR	OFF	2007/04/19 11:57
S3	51	("20020021277" "20020054011" "3157853" "3220121" "3497668" "3517446" "3623064" "3902687" "3903614" "3911416" "4160508" "4236325" "4513235" "4581491" "4599070" "4708656" "4713007" "4794392" "4891764" "4930770" "4934694" "5019761" "5022407" "5035242" "5038089" "5078152" "5212473" "5240417" "5271290" "5275174" "5299810" "5309140" "5334027" "5466213" "5547382" "5766016" "5785630" "6219034" "6411276" "6448977" "6469692").PN. OR ("6717573").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/30 11:32
S4	10	S3 and pin	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/30 11:33
S5	13	S3 and pin	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/30 11:33
S6	1	S5 and mouse	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/30 11:33
S7	3	("6191744" "5912660" "6278441").pn.	US-PGPUB; USPAT	OR	OFF	2007/05/30 15:02
S8	1430	345/163.ccls.	US-PGPUB; USPAT	OR	OFF	2007/05/30 15:02
S9	1368	S8 and mouse	US-PGPUB; USPAT	OR	OFF	2007/05/30 15:03
S10	81	S9 and (haptic or (force near feedback))	US-PGPUB; USPAT	OR	OFF	2007/05/30 15:03

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S11	81	S9 and (haptic or (force near feedback))	US-PGPUB; USPAT	OR	ON	2007/05/30 15:03
S12	3	08/781,017	US-PGPUB; USPAT	OR	OFF	2007/05/30 15:29
S13	464	actuator with bimorph with piezoelectric	US-PGPUB; USPAT	OR	OFF	2007/05/30 15:29
S14	220	("3944798" "4125800" "4148014" "4477043" "4654648" "4734685" "4775289" "4787051" "4798919" "4800721" "4811608" "4839838" "4879556" "4935728" "4961138" "4961267" "4983786" "5007300" "5044956" "5095303" "5103404" "5107080" "5116051" "5139261" "5143505" "5181181" "5184319" "5185561" "5186629" "5220260" "5223776" "5228356" "5290276" "5296846" "5355148" "5374942" "5389865" "5396266" "5397323" "5398044" "5405152" "5414337" "5429140" "5436638" "5436640" "5438529" "5451924" "5457479" "5512919" "5513100" "5530455" "5570111" "5576727" "5587937" "5589828" "5589854" "5591924" "5623582" "5623642" "5629594" "5642469" "5643087" "5666473" "5691747" "5691898").PN. OR ("5825308"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/30 15:55
S15	154	S14 and mouse	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/30 15:56
S16	119	S15 and ((force near feedback) or haptic)	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/30 16:31
S17	39	mouse and (drum with cable with capstan)	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/30 16:34
S18	45	08/736,161	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/30 16:35
S19	45	08/736,161 and mouse	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/30 17:03

EAST Search History

S20	1805	(mouse and ((force near feedback or haptic)).ti"	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/30 17:03
S21	9	(mouse and ((force near feedback or haptic)).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/30 17:03
S22	45	08/756,745	US-PGPUB; USPAT	OR	OFF	2007/05/31 07:26
S23	45	S22 and motor	US-PGPUB; USPAT	OR	ON	2007/05/31 07:26
S24	1	"6166723".pn.	US-PGPUB; USPAT	OR	OFF	2007/05/31 07:27
S25	1	"6166723".pn. and motor	US-PGPUB; USPAT	OR	OFF	2007/05/31 07:36
S26	1	"5912660".pn.	US-PGPUB; USPAT	OR	OFF	2007/05/31 07:36
S27	30	("3594787" "3768180" "4772205" "4875185" "4881900" "4898536" "5186629" "5195894" "5222895" "5244288" "5374924" "5496174" "5512920" "5563631" "5736978").PN. OR ("5912660"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/31 07:37
S28	20	S27 and mouse	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/31 07:37
S29	20	("5065434" "5186629" "5223828" "5287102" "5636038" "5714978" "5912660" "5942970" "6046722" "6278441" "6354839" "6417821" "6459364").PN. OR ("6636202"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/31 07:41
S30	10	S29 and pin	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 07:50
S31	1	"5973689".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:10
S32	626	actuator with pin with step	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:10
S33	2	actuator with pin with step with bend	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:11

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S34	6	actuator with pin with step with piezoelectric	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:12
S35	217	actuator with pin with piezoelectric	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:12
S36	1	actuator with pin with piezoelectric with bend	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:31
S37	0	bimorph with bendable with piezoelectric	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:32
S38	0	bimorph with bend with piezoelectric	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:32
S39	4850	bimorph piezoelectric	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:32
S40	4632	bimorph piezoelectric with actuator	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:32
S41	4609	bimorph with piezoelectric with actuator	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:32
S42	0	bimorph with piezoelectric with actuator	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:32
S43	3	bimorph with piezoelectric	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:34
S44	0	piezoelectric with actuator	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:34
S45	25	piezoelectric with actuator	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:35
S46	0	piezoelectric with actuator with bi-morph	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:35
S47	25	piezoelectric with actuator	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:46
S48	3	piezoelectric with (bimorph or bi-morph)	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:36

EAST Search History

S49	120	schen.a.in.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:47
S50	86	schen.a.in. and mouse	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:52
S51	626	actuator with step with pin	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:53
S52	10	actuator with step with pin and braille	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:54
S53	1	actuator with stair with pin	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:55
S54	36	(braille.ti. or braille.ab.) and pin with actuator	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 08:58
S55	18	(braille.ti. or braille.ab.) and pin with lever	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 09:20
S56	1	"6061004".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 09:20
S57	0	"6061004".pn. and pin	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 09:21
S58	0	"5973689".pn. and pin	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 09:54
S59	1	"6717573".pn. and pin	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 09:59
S60	1	"6469692".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 10:08
S61	25146	(stairway or stair or step) with actuator	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 10:09
S62	128	(stairway or stair) with actuator	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 10:09
S63	1	("2005/0146241").URPN.	USPAT	OR	OFF	2007/05/31 10:14
S64	288	stepping near actuator	USPAT	OR	OFF	2007/05/31 10:15
S65	7	(stepping near actuator).ti.	USPAT	OR	OFF	2007/05/31 10:15

EAST Search History

S66	24	(US-20060033716-\$ or US-20020050978-\$).did. or (US-6636197-\$ or US-6342880-\$ or US-6288705-\$ or US-6166723-\$ or US-5999168-\$ or US-6100874-\$ or US-5825308-\$ or US-6422942-\$ or US-3594787-\$ or US-5973689-\$ or US-4280756-\$ or US-6271833-\$ or US-6469692-\$ or US-6717573-\$ or US-6353427-\$ or US-6125385-\$ or US-6088019-\$ or US-5990869-\$ or US-5587937-\$ or US-7209115-\$ or US-4787051-\$ or US-5828197-\$). did.	US-PGPUB; USPAT	OR	OFF	2007/06/05 11:13
S67	8	S66 and capstan	US-PGPUB; USPAT	OR	OFF	2007/06/05 11:48
S68	24	(US-20060033716-\$ or US-20020050978-\$).did. or (US-6636197-\$ or US-6342880-\$ or US-6288705-\$ or US-6166723-\$ or US-5999168-\$ or US-6100874-\$ or US-5825308-\$ or US-6422942-\$ or US-3594787-\$ or US-5973689-\$ or US-4280756-\$ or US-6271833-\$ or US-6469692-\$ or US-6717573-\$ or US-6353427-\$ or US-6125385-\$ or US-6088019-\$ or US-5990869-\$ or US-5587937-\$ or US-7209115-\$ or US-4787051-\$ or US-5828197-\$). did.	US-PGPUB; USPAT	OR	OFF	2007/06/05 13:19
S69	3	S68 and wrist	US-PGPUB; USPAT	OR	OFF	2007/06/05 14:52
S70	0	(stairstep or stair-step) with actuator with pin	US-PGPUB; USPAT	OR	ON	2007/06/05 14:57
S71	14	pin with finger with mouse	US-PGPUB; USPAT	OR	ON	2007/06/05 15:10
S72	838	capstan with (shaft or rod or pin) with (slit or guide or groove)	US-PGPUB; USPAT	OR	ON	2007/06/05 15:11
S73	29	capstan with (shaft or rod or pin) with (slit or guide or groove) with cable	US-PGPUB; USPAT	OR	ON	2007/06/05 15:53
S74	13	capstan with (shaft or rod or pin) with (slit or guide or groove) and mouse	US-PGPUB; USPAT	OR	ON	2007/06/05 15:58
S75	10	capstan with (shaft or rod) with (slit or guide or groove) and mouse	US-PGPUB; USPAT	OR	ON	2007/06/05 16:02
S76	5	capstan with (shaft or rod) with (slit or guide or groove) and haptic	US-PGPUB; USPAT	OR	ON	2007/06/05 16:04

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S77	5	capstan with (shaft or rod) with ((slit or guide or groove) near head)	US-PGPUB; USPAT	OR	ON	2007/06/05 16:06
S78	3	capstan with button and mouse	US-PGPUB; USPAT	OR	ON	2007/06/05 16:08
S79	1	motor and (rod with groove with cable) and mouse	US-PGPUB; USPAT	OR	ON	2007/06/05 16:20
S80	1	"5625576".pn.	US-PGPUB; USPAT	OR	ON	2007/06/05 16:21
S81	1	"5625576".pn. and cable and capstan and groove	US-PGPUB; USPAT	OR	ON	2007/06/05 16:31
S82	0	S70 and capstan	US-PGPUB; USPAT	OR	ON	2007/06/05 16:31
S83	24	(US-20060033716-\$ or US-20020050978-\$).did. or (US-6636197-\$ or US-6342880-\$ or US-6288705-\$ or US-6166723-\$ or US-5999168-\$ or US-6100874-\$ or US-5825308-\$ or US-6422942-\$ or US-3594787-\$ or US-5973689-\$ or US-4280756-\$ or US-6271833-\$ or US-6469692-\$ or US-6717573-\$ or US-6353427-\$ or US-6125385-\$ or US-6088019-\$ or US-5990869-\$ or US-5587937-\$ or US-7209115-\$ or US-4787051-\$ or US-5828197-\$). did.	US-PGPUB; USPAT	OR	OFF	2007/06/05 16:31
S84	8	S83 and capstan	US-PGPUB; USPAT	OR	ON	2007/06/05 16:32
S85	2	S83 and capstan and pin	US-PGPUB; USPAT	OR	ON	2007/06/05 16:33
S86	0	cable with actuator with slit with pin	US-PGPUB; USPAT	OR	ON	2007/06/05 16:35
S87	21966	actuator and pin and (braille or finger)	US-PGPUB; USPAT	OR	ON	2007/06/05 16:36
S88	720	actuator with pin with (braille or finger)	US-PGPUB; USPAT	OR	ON	2007/06/05 16:36
S89	46	actuator with pin near (braille or finger)	US-PGPUB; USPAT	OR	ON	2007/06/05 16:36
S90	16	actuator with pin near (braille)	US-PGPUB; USPAT	OR	ON	2007/06/05 16:40
S91	202	braille and piezoelectric	US-PGPUB; USPAT	OR	ON	2007/06/05 16:41
S92	53	braille with piezoelectric	US-PGPUB; USPAT	OR	ON	2007/06/05 16:41
S93	21	braille with piezoelectric and step	US-PGPUB; USPAT	OR	ON	2007/06/05 16:43

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S94	2	braille with piezoelectric with (step or stair or stairstep)	US-PGPUB; USPAT	OR	ON	2007/06/05 16:43
S95	0	capstan near extendable with rod	US-PGPUB; USPAT	OR	OFF	2007/06/06 09:49
S96	0	capstan with extendable near rod	US-PGPUB; USPAT	OR	OFF	2007/06/06 09:49
S97	0	capstan with extendable near (rod or shaft)	US-PGPUB; USPAT	OR	OFF	2007/06/06 09:49
S98	38	capstan with extend near (rod or shaft)	US-PGPUB; USPAT	OR	ON	2007/06/06 09:49
S99	0	capstan with extend near (rod or shaft) with cable	US-PGPUB; USPAT	OR	ON	2007/06/06 09:50
S100	38	capstan with extend near (rod or shaft)	US-PGPUB; USPAT	OR	ON	2007/06/06 09:50
S101	27	(US-20020024501-\$ or US-20060033716-\$ or US-20020050978-\$).did. or (US-5625576-\$ or US-6166723-\$ or US-6636197-\$ or US-6271833-\$ or US-6100874-\$ or US-5828197-\$ or US-5825308-\$ or US-5587937-\$ or US-5226817-\$ or US-6717573-\$ or US-6469692-\$ or US-6353427-\$ or US-6342880-\$ or US-6288705-\$ or US-6088019-\$ or US-6125385-\$ or US-5999168-\$ or US-5990869-\$ or US-7209115-\$ or US-5973689-\$ or US-4787051-\$ or US-6422942-\$ or US-3594787-\$ or US-4280756-\$). did.	US-PGPUB; USPAT	OR	OFF	2007/06/06 10:32
S102	0	S101 and finger with capstan	US-PGPUB; USPAT	OR	OFF	2007/06/06 10:33
S103	387	button with capstan	US-PGPUB; USPAT	OR	OFF	2007/06/06 10:33
S104	0	button with capstan and haptic	US-PGPUB; USPAT	OR	OFF	2007/06/06 10:33
S105	1	button with capstan and mouse	US-PGPUB; USPAT	OR	OFF	2007/06/06 10:44
S106	0	capstan with threaded with tension with bar	US-PGPUB; USPAT	OR	OFF	2007/06/06 10:45
S107	22	capstan with tension with bar	US-PGPUB; USPAT	OR	OFF	2007/06/06 10:54
S108	4	button near (extend or extends) with mouse	US-PGPUB; USPAT	OR	ON	2007/06/06 11:04
S109	55	227/46.ccls.	US-PGPUB; USPAT	OR	ON	2007/06/06 15:18

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S11 0	0	capstan near drim	US-PGPUB; USPAT	OR	ON	2007/06/06 15:19
S11 1	501	capstan near drum	US-PGPUB; USPAT	OR	ON	2007/06/06 15:19
S11 2	275	capstan near drum and extend	US-PGPUB; USPAT	OR	ON	2007/06/06 15:19
S11 3	16	capstan near drum with extend	US-PGPUB; USPAT	OR	ON	2007/06/06 15:21
S11 4	1291	capstan with extend	US-PGPUB; USPAT	OR	ON	2007/06/06 15:22
S11 5	15	capstan with extend with outward	US-PGPUB; USPAT	OR	ON	2007/06/06 16:30
S11 6	189	actuator with (rod or shaft or drum) with extends with cable	US-PGPUB; USPAT	OR	ON	2007/06/06 16:30
S11 7	13	actuator with (rod or shaft or drum) with extends with cable with button	US-PGPUB; USPAT	OR	ON	2007/06/06 16:39
S11 8	0	actuator with (rod or shaft or drum) near extends with cable with button	US-PGPUB; USPAT	OR	ON	2007/06/06 16:31
S11 9	17230	servomotor	US-PGPUB; USPAT	OR	ON	2007/06/06 16:39
S12 0	12	servomotor with cable with extend	US-PGPUB; USPAT	OR	ON	2007/06/06 16:43
S12 1	42	servomotor with capstan	US-PGPUB; USPAT	OR	ON	2007/06/06 16:43
S12 2	1707	(electric or electrical) near motor with cable and (groove or slit)	US-PGPUB; USPAT	OR	ON	2007/06/06 16:44
S12 3	50	(electric or electrical) near motor with cable with (groove or slit)	US-PGPUB; USPAT	OR	ON	2007/06/06 16:44
S12 4	0	(electric or electrical) near motor with cable with ((rod or shaft) near (groove or slit))	US-PGPUB; USPAT	OR	ON	2007/06/06 17:24
S12 5	103	242/318.ccls.	US-PGPUB; USPAT	OR	ON	2007/06/06 17:27
S12 6	70	tension near bar with cable	US-PGPUB; USPAT	OR	ON	2007/06/06 17:27
S12 7	17	tension near bar with cable and motor	US-PGPUB; USPAT	OR	ON	2007/06/06 17:27
S12 8	20	tension near bar with cable and (motor or actuator)	US-PGPUB; USPAT	OR	ON	2007/06/06 17:28
S12 9	8	tension near bar and capstan	US-PGPUB; USPAT	OR	ON	2007/06/06 17:31
S13 0	15	slit near pin near head	US-PGPUB; USPAT	OR	ON	2007/06/06 17:31

EAST Search History

S13 1	1	slit near pin near head with cable	US-PGPUB; USPAT	OR	ON	2007/06/06 17:48
S13 2	42	retractable near rod with motor	US-PGPUB; USPAT	OR	ON	2007/06/06 17:48
S13 3	0	retractable near rod with motor with cable	US-PGPUB; USPAT	OR	ON	2007/06/06 17:48
S13 4	42	retractable near rod with motor	US-PGPUB; USPAT	OR	ON	2007/06/06 17:49
S13 5	6	retractable near rod with motor near electric	US-PGPUB; USPAT	OR	ON	2007/06/06 17:51
S13 6	27	(US-20020024501-\$ or US-20060033716-\$ or US-20020050978-\$).did. or (US-5625576-\$ or US-6166723-\$ or US-6636197-\$ or US-6271833-\$ or US-6100874-\$ or US-5828197-\$ or US-5825308-\$ or US-5587937-\$ or US-5226817-\$ or US-6717573-\$ or US-6469692-\$ or US-6353427-\$ or US-6342880-\$ or US-6288705-\$ or US-6088019-\$ or US-6125385-\$ or US-5999168-\$ or US-5990869-\$ or US-7209115-\$ or US-5973689-\$ or US-4787051-\$ or US-6422942-\$ or US-3594787-\$ or US-4280756-\$). did.	US-PGPUB; USPAT	OR	OFF	2007/06/06 18:10
S13 7	2	S136 and capstan and pin	US-PGPUB; USPAT	OR	OFF	2007/06/06 18:03
S13 8	569649	actuator with2 capstan with2 button	US-PGPUB; USPAT	OR	OFF	2007/06/06 18:10
S13 9	2	actuator with capstan with button	US-PGPUB; USPAT	OR	OFF	2007/06/06 18:18
S14 0	0	wind near around near rod and capstan	US-PGPUB; USPAT	OR	OFF	2007/06/06 18:18
S14 1	0	wind near rod and capstan	US-PGPUB; USPAT	OR	OFF	2007/06/06 18:18
S14 2	1	"6162058".pn.	US-PGPUB; USPAT	OR	OFF	2007/06/07 09:00
S14 3	17	servomotor.ti. and cable	US-PGPUB; USPAT	OR	OFF	2007/06/07 09:00
S14 4	6	servomotor with mouse	US-PGPUB; USPAT	OR	OFF	2007/06/07 09:01
S14 5	309	servomotor and mouse	US-PGPUB; USPAT	OR	OFF	2007/06/07 09:01
S14 6	10	servomotor and mouse and haptic	US-PGPUB; USPAT	OR	OFF	2007/06/07 09:04

EAST Search History

S14 7	3	(haptic near2 (device or interface)). ab. and button with (capstan or extendable or extends)	US-PGPUB; USPAT	OR	ON	2007/06/07 09:10
S14 8	1	((haptic near2 (device or interface)) or mouse).ab. and (pin with groove with cable)	US-PGPUB; USPAT	OR	ON	2007/06/07 09:24
S14 9	80	actuator and capstan and extend near (rod or shaft or support)	US-PGPUB; USPAT	OR	ON	2007/06/07 09:25
S15 0	796	actuator.ti. and extend near (rod or shaft or support)	US-PGPUB; USPAT	OR	ON	2007/06/07 09:25
S15 1	133	movable near button with actuator	US-PGPUB; USPAT	OR	ON	2007/06/07 09:26